

JOYEL VARGHESE

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Professional Summary

Results-driven and self-motivated MERN stack developer with hands-on experience building real-world projects that strengthened my frontend and backend development skills. I am a quick learner with a strong problem-solving mindset. My adaptability and passion for clean, efficient code enable me to deliver high-quality solutions to complex challenges.

TECHNICAL SKILLS

Languages: C++, C, Java, JavaScript, SQL, NoSQL

Frontend: HTML, CSS, Bootstrap, React, Next.js, Tailwind CSS, Sass

Backend: Node.js, Express.js, REST APIs

Databases: MongoDB, MySQL, PostgreSQL

Dev Tools: Git, GitHub, Postman, Figma

Others: Redux, JWT, OAuth2.0, AWS, Firebase, Socket.io, Razorpay, Stripe, Cloudinary, Multer, DSA

Experience

Freelance Developer – Various Projects

July 2024 – Present

QR-Bridge Application [Live](#)

March 2025 – April 2025

- Developed the frontend for a smart QR-based item registration and recovery platform.
- Built a responsive and scalable UI using React.js and Tailwind CSS.
- Implemented public and protected routes using React Router DOM.
- Collaborated with a backend team using Python Django for smooth integration.
- Enabled users to register items, generate unique QR codes, and allow finders to notify owners via scans.

Estimation Engineer - WALCO MIDDLE EAST, Qatar

Jan 2019 – Dec 2023

- Worked as an Estimation and Sales Engineer, responsible for project cost estimation, tender preparation, and sales activities.

Major Projects

TutorG– E-Learning Platform [Live](#)

Nov 2024 – Jan 2025

- Developed a full-featured personalized learning platform using the MERN stack for collaborative skill-building.
- Engineered a responsive and dynamic frontend with React, TypeScript, Tailwind CSS, and Material UI to ensure a seamless user experience.
- Built a scalable backend with Node.js, Express.js, and MongoDB using TypeScript, following a layered and modular architecture for maintainability.
- Implemented JWT-based authentication and OTP verification via Nodemailer to enhance security.
- Integrated Cloudinary for efficient multimedia storage and Multer for smooth file uploads.
- Enabled real-time chat with Socket.io and video calling via Zegocloud (WebRTC) for interactive communication.
- Handled secure online payments using Stripe API, ensuring reliable transactions.
- Added user notifications for course updates and key platform events to improve engagement.
- Utilized Toastify to deliver intuitive, real-time success and error feedback.
- Adopted the Repository design pattern for clean separation of concerns and code scalability.

Moment – E-Commerce Website [Live](#), [Github](#)

May 2024 – Jun 2024

- Developed a full-stack E-Commerce platform (online watch store) with a responsive UI using HTML, CSS, JavaScript, and Bootstrap
- Built scalable backend services using Node.js, Express.js, and MongoDB, following MVC architecture for

maintainability

- Implemented product listing, cart, wishlist, checkout, and a coupon system for seamless shopping experience
- Integrated Razorpay for secure payment processing and OTP-based authentication using Nodemailer
- Enabled efficient image uploads for products and user profiles using Multer
- Designed separate modules for admin and user dashboards, supporting role-based access control and product/category management
- Generated dynamic sales reports with chart visualizations and enhanced UX using SweetAlert (SWAL)
- Leveraged AWS Cloud Service EC2 (Elastic Cloud Computing) along with Nginx, Certbot and PM2 for deployment, resulting in a high performing, reliable and secure platform with the capacity for seamless scalability.
- Technologies used: Node.js, Express.js, MongoDB, Bootstrap, Razorpay, Nodemailer, Multer, SweetAlert, Nginx, AWS EC2

Mini Projects

Blog Admin Panel – Next.js + MongoDB

[GitHub](#) [Live](#)

- Built an admin panel to create, manage, and upload blog posts.
- Backend APIs to handle post creation and fetching from MongoDB.
- Dynamic blog rendering using integrated APIs.

Doctor’s Appointment Booking System – React

[Github](#) [Live](#)

- Created a responsive booking app with scheduling, viewing, and managing features.
- Built using React.js for a responsive web design, ensuring smooth interactions.
- Utilized Tailwind CSS to create a clean and modern design that enhances user engagement.

Netflix Clone – React

[Github](#) [Live](#)

- Built a Netflix-style UI with React and dynamic API integration to display content.

Corso – Training Website (Bootstrap + Sass)

[Github](#) [Live](#)

- Designed a responsive website with light/dark themes, carousels, sticky navigation bar, and interactive forms.

Education

MERN Stack Development, Brototype, Kochi

July 2024 - May 2025

BTech – Mechanical Engineering,(CUSAT)

June 2013 - May 2017

Full Stack Web Development (Online Certification)

Jan 2024 - Dec 2024